

International Conference on Dynamics of Biological Systems

September 26-28th, 2019, Kaunas, Lithuania

The Principal Topic:
Biomedical Engineering of Dynamical Systems

Other Topics:

MEDICAL DEVICES, MATERIALS, MEASUREMENT AND INSTRUMENTATION:

- Bioinstrumentation
- Biosensors and Transducers
- Measurement and Instrumentation
- Micro-technology, BioMEMS, Lab-on-Chip
- Robotics in Medicine
- **Ethical implications of biotechnology and bioengineering**

HEALTH CARE TECHNOLOGY (topics related to dynamics and oscillatory evolution):

- Biomedical applications of Electromagnetic Fields
- Complexity in Health Sciences
- Medical Physics and Physiology
- Therapeutic Engineering (electrotherapy, implant technology, etc.)

MEDICAL IMAGE AND SIGNAL PROCESSING (topics related to dynamics, oscillations, wave propagation):

- Biocomputing and Bioinformatics
- Biomedical Signal Processing
- Big Data (Analysis, Representation and Visualization)
- ECG, EEG, EMG Analysis
- Optical and Ultrasound Imaging

MODELLING, SIMULATION AND CONTROL (topics related to biomedical engineering):

- Biomathematics
- Biomedical Computing
- Simulation in Biomedicine, Sports and Ergonomics
- Control of Complex Processes in Biology

BIOMECHANICS:

- Bone and Joint Engineering
- Musculoskeletal Modelling and Tissue Mechanics
- Physiotherapy and Sports Biomechanics
- Prosthetics and Orthotics

Local Organizers:

JVE International
Lithuanian University of Health Sciences
Kaunas University of Technology
Vytautas Magnus University

International Organizers:

Vienna University of Technology (Austria)
Silesian University of Technology (Poland)
Hohai University (China)
Barcelona University (Spain)
HeartMath Institute (USA)
Etc.

Chairs of the Conference:

Prof. Eugenijus Kaniusas
Prof. Minvydas Ragulskis
Prof. Alfonsas Vainoras

Local Organizing Committee:

Prof. Minvydas Ragulskis
Dr. Vaiva Šiaučiūnaitė
Prof. Alfonsas Vainoras
Prof. Saulius Šatkauskas
Prof. A. Ragauskas
Prof. Vaidotas Marozas
Dr. Aurelijus Domeika,
Prof. Jonas Poderys
Prof. Renaldas Raišutis
Assoc. Prof. Mindaugas Štelemėkas

International Organizing Committee:

Prof. Eugenijus Kaniušas, Austria, Vienna
Prof. Wolfgang Schoellhorn, Germany, Mainz
Prof. Natalia Balague, Spain, Barcelona
Dr. Rollin McCraty, USA, California
A/Prof. Joachim Sturmberg, Australia, Newcastle
Dr. Kamyar M. Hedayat, USA, Chicago.
Prof. Robert Hristovskij, Macedonia, Skopje

Invited Key-Note Speakers (to be confirmed):

Constantin Szelesz, Austria, Vienna
Wolfgang Schoellhorn, Germany, Mainz
Rollin McCraty, USA, California
Srecko Gajovic, Croatia, Zagreb
Stavros Koulouridis, Greece, Patra
Kamyar M. Hedayat, USA, Chicago

Venue: Conference will be hold in Lithuanian University of Health Sciences and Kaunas Technology University

Internationally renowned invited speakers and contributing authors from all over the world will present the latest advances in the field of Biomedical Engineering of dynamical systems. This conference will feature a broad range of high-level technical presentations including invited distinguished experts. The conference will provide an opportunity to communicate your recent research advances, exchange ideas in innovative Biomedical Engineering technologies, meet old friends and make new business partners in Biomedical Engineering. With your participation, this Conference will be an exciting scientific event, a fruitful opportunity to promote scientific research and technological development of Biomedical Engineering and its applications.

All papers presented at **International Conference on Dynamics of Biological Systems** will be published as short Conference papers in **Vibroengineering Procedia**. Conference papers published in **Vibroengineering Procedia** are indexed in Scopus, Compendex, Inspec, Gale Cengage, Google Scholar and EBSCO.

Authors of best papers presented at **JVE International Conference on Biomedical Engineering** will be invited to extend their manuscripts to full journal papers which will be considered for publication in one of our Open Access journals:

- **Journal of Complexity in Health Sciences** (indexed in CNKI, Google Scholar, CrossRef);
- **Journal of Vibroengineering** (indexed in ESCI, Clarivate Analytics, Compendex, Inspec, Publons, Scopus, DOAJ, Ebsco, Gale, CNKI, Google Scholar, CrossRef);
- **Journal of Measurements in Engineering** (indexed in ESCI, Clarivate Analytics, Inspec, Publons, EBSCO, Gale, Ebsco, Google Scholar, CrossRef);
- **Journal of Mathematical Models in Engineering** (indexed in CNKI, Ebsco, Gale, Google Scholar, CrossRef)

History of the JVE Conference Series

The Conference Series started in 1999. In 2018 alone, 6 International JVE Conferences have been organized:

31st International Conference on VIBROENGINEERING in Dubai, United Arab Emirates
Main theme: “Vibration and Acoustics in Civil Engineering and Fault Diagnostics”

32nd International Conference on VIBROENGINEERING in Brno, Czech Republic
Main theme: “Dynamics and Acoustics in Automotive Engineering”

33rd International Conference on VIBROENGINEERING in Zittau, Germany
Main theme: “Vibration and Acoustics: Challenges in Mechanical Engineering”

34th International Conference on VIBROENGINEERING in Shanghai, China
Main theme: “Vibration Engineering – Problems and Applications”

35th International Conference on VIBROENGINEERING in Mexico City, Mexico
Main theme: “Vibration, Waves and Acoustics-Engineering Problems and Applications”

36th International Conference on VIBROENGINEERING in Greater Noida (Delhi), India
Main theme: “Dynamics, Noise, Vibration and Control”